



U.S. Department  
of Transportation

Research and  
Special Programs  
Administration

400 Seventh Street, S.W.  
Washington, D.C. 20590

IAEA CERTIFICATE OF COMPETENT AUTHORITY  
SPECIAL FORM RADIOACTIVE MATERIALS  
CERTIFICATE NUMBER USA/0071/S, REVISION 5

This certifies that the source described has been demonstrated to meet the regulatory requirements for special form radioactive material as prescribed in the regulations of the International Atomic Energy Agency<sup>1</sup> and the United States of America<sup>2</sup> for the transport of radioactive materials.

1. Source Identification - 3M Model 4D6L capsules manufactured prior to August 3, 1989.
2. Source Description - The source described by this certificate is a double encapsulation which is sealed with an inert gas weld and is constructed on Type 304 stainless steel. The capsule measures 38.1 mm (1.5") in length and 12.7 mm (0.5") in diameter. Sources capsules shall have been manufactured in accordance with 3M drawing no. 12-1921-0737-8 (attached).
3. Radioactive Contents - not more than 0.37 TBq (10 Ci) of Cesium-137 in the form of 3M Brand Radiating Ceramic Microspheres.
4. Quality Assurance - Records of Quality Assurance activities required by Paragraph 209 of the IAEA regulations<sup>1</sup> shall be maintained and made available to the authorized officials for at least three years after the last shipment authorized by this certificate. Consignors and consignees in the United States exporting or importing shipments under this certificate shall satisfy the requirements of Subpart H of 10 CFR 71.
5. Expiration Date - This certificate expires June 30, 2003.

This certificate is issued in accordance with paragraph 703 of the IAEA Regulations and Section 173.476 of Title 49 of the Code of Federal Regulations, in response to the petition and information dated January 10, 1997 and November 17, 1997 submitted by ICO, Houston, TX, and in consideration of other information on file in this Office.

Certified by:

Alan I. Roberts

Associate Administrator for Hazardous Materials Safety

JUN 25 1998

(DATE)

Revision 5 - issued to restrict the manufacture date and to extend the expiration date of the previous certificate.

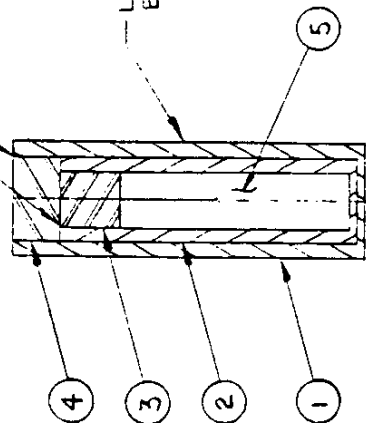
1 "Safety Series No. 6, Regulations for the Safe Transport of Radioactive Materials, 1985 Edition, as amended 1990", published by the International Atomic Energy Agency (IAEA), Vienna, Austria.

2 Title 49, Code of Federal Regulations, Parts 100 - 199, United States of America.

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0011/3071/5

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LABEL DATA  
ENGRAVE AS REQUIRED

ITEM	QTY	PART NO.	DESCRIPTION
1	1	B-12-1921-3487-7	OUTER CAPSULE
2	1	B-12-1921-3488-5	INNER CAPSULE
3	1	B-12-1921-2231-8	INNER PLUG
4	1	B-12-1921-2332-6	OUTER PLUG
5	AS		3M BRAND RADIATING MICROSPHERES CONTAINING IESTOPE C-137



USED ON

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OPERATION	FLATNESS	THICKNESS	VALU
MACHINING	± .01	± .005	✓
CUT OFF SAW	± .01	± .005	✓
GRINDING	± .01	± .005	✓
WELDING	± .01	± .005	✓
ANGULAR DIM.	± .01	± .005	✓
SCALE	2X	APP.	✓



Engineering  
Division/3M  
St Paul  
Minnesota 55101

DR. CHUCK ZENDER

CH. APP. B

F	OCT 27, 82	REV
	ECO B2-0080	
	REDMAN ENOK	
	H 2 001-0747-2-3	
	ISSUE DATE AND CHANGE RECORD	

TITLE	ASSEMBLY VOLUME 1000000 4D6L
PART NO.	12-1921-0737-8